

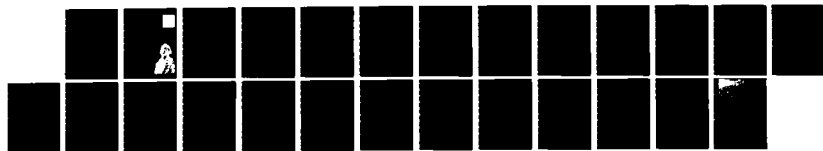
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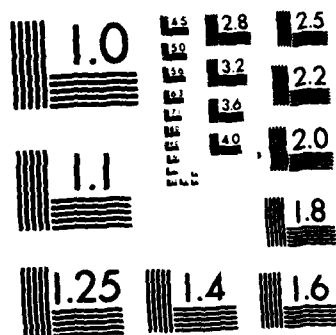
FINAL REPORT ON CONTRACT N00014-75-C-0729 (INVENTORY  
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FINAL REPORT  
ON  
CONTRACT N00014-75-C-0729

by

W. H. Marlow  
Principal Investigator

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Program in Logistics  
GWU/IMSE/Serial T-480/83  
30 June 1983

THE GEORGE WASHINGTON UNIVERSITY  
School of Engineering and Applied Science  
Washington, DC 20052

Institute for Management Science and Engineering

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by

W. H. Marlow  
Principal Investigator

Abstract  
of  
Program in Logistics  
GWU/IMSE/Serial T-480/83  
30 June 1983

The period of performance was from 1 January 1975 through 30 June 1983. Work was performed in four areas: inventory research, computational problems in logistics, transportation and economic analyses, and system performance measurements. The present set of references constitutes a complete bibliography of publications and technical reports for the contract.

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THE GEORGE WASHINGTON UNIVERSITY  
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Institute for Management Science and Engineering

FINAL REPORT  
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W. H. Marlow  
Principal Investigator

Program in Logistics  
GWU/IMSE/Serial T-480/83  
30 June 1983

0. Summary

The period of performance was from 1 January 1975 through 30 June 1983. Work was performed in four areas: inventory research, computational problems in logistics, transportation and economic analyses, and system performance measurements. The present set of references constitutes a complete bibliography of publications and technical reports for the contract. Citations for the latter include the AD numbers by which copies may be ordered from the National Technical Information Service or the Defense Technical Information Center.

1. Inventory research

Research was performed under the following major subject headings: multi-echelon models, inventory modeling utilizing queueing theory, and large-scale logistics modeling.

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## 2. Computational problems in logistics

Research was performed on applications of mathematical programming to the modeling of logistics problems in situations where no exact solution methods were known, or there were significant computer input problems for associated functions, or there were requirements for post-optimality analyses. More general major subject headings are: nonlinear programming, sensitivity analysis, multi-level programming, and global optimization.

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### 3. Transportation and economic analyses

Research was performed under the following major subject headings: naval aviation training, production and procurement planning, manpower and personnel manpower management for the U.S. Marine Corps, and resource dynamics research.

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